Total Kjelkdahl Nitrogen by Flow Injection Colorimetry- LATCHAT
QuickChem Method 10-107-06-2-I

Facility Name:_____VELAP ID_____

Assessor Name:_____Analyst Name:_____Inspection Date_____

Relevant Aspect of Standards	Method Reference	Y	N	N/A	Comments
Records Examined: SOP Number/ Revision/ Date _____ Analyst:_____ Sample ID: _____ Date of Sample Preparation:_____ Date of Analysis:_____					
Are samples preserved with sulfuric acid to pH <2 and cooled to <6°C at the time of collection?	8.2				
Are samples analyzed within 28 days of collection?	8.3				
Are all reagent solutions degassed for one minute using helium?	7.1				
Is salicylate nitroprusside stored in a dark bottle and prepared fresh monthly?	7.1				
Is buffer prepared fresh monthly and degassed weekly?	7.1				
Are all calibration standards prepared either by digesting standards along with samples or by mixing the proper aliquots of stock standard with digestion diluent? *AT LEAST two blanks and one standard are digested.*	7.2, 11.1				
When samples are preserved with sulfuric acid, are standards preserved in the same manner?	11.2.1				
When preparing standards and samples for digestion, is 10 mL digestion solution added to a 25 mL aliquot and mixed?	11.2.2				
Are 2 to 4 Hengar (Alundum) granules or Teflon boiling chips added to each digestion tube?	11.2.3				
Are digestion tubes placed in the preheated block digestor for one hour at 200ºC, and then heated 2 hours at 380ºC?	11.2.4, 11.2.6				
Are digested samples removed from the block, cooled about 3 minutes, diluted to 25 mL with distilled water, and vortexed to mix? *If not run immediately, they should be covered tightly.*	11.2.7-11.2.9				
Is the MDL established per 40 CFR 136?	9.2.1				
Notes/Comments:					

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Is a second source QCS (or LCS) analyzed with each batch? *The lab should develop in-house criteria to assess both matrix spikes and LCSs.*	9.7, 10.8				
Is a LRB analyzed with each batch of 20 samples and determined to be less than the Minimum Level? *(Method does not define minimum level- use MDL per EPA 351.2.)*	9.4				
Are a minimum of 5 percent of all samples (one per batch of 20) spiked in duplicate, and do the % recovery and RPD results meet current lab acceptance criteria?	9.3				
Is a mid-range calibration standard analyzed after every 10 samples and its recovery within ±10%?	10.7, 10.8				
Is the instrument allowed to warm up for at least 15 minutes?	11.4.1				
If samples are over-range, are they diluted (post-digestion) with digestion diluent rather than deionized water?	11.4.2				
To prevent interference from turbidity, are digested samples either settled or centrifuged prior to analysis?	11.4.8.1, 11.4.8.2				

Notes/Comments: